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or second lower pinnule somewhat elongated; pinnules of entire frond more or less dentate-serrate; otherwise as the type.

Open woods, "Spring's Field," Hiram, Me., Aug. 1, 1910; wet roadside "dikes," Sebago, Me., Sept. 4, 1910.

It might be added that Mr. Merrill further states that the whole frond shows a tendency to "ear" but that the variation is most marked in the middle third.

PITTSBURG, PA.

A list of the ferns found in the vicinity of Ohio Pyle, Pa.

LEWIS S. HOPKINS

The little village of Ohio Pyle lies in the southeastern part of Fayette county, Pa., where the Youghiogheny river has cut its gorge down through the lower Carboniferous. The river tumbles over a ledge of the upper Devonian, ordinarily spoken of as the Catskill Conglomerate, making a picturesque fall of some 15 or 20 feet. The whole gorge is beautiful and hundreds of tourists, attracted by its charm, visit the spot each year.

A "Symposium of Eastern Botanists" was held here during the Fourth of July week, 1905. This symposium included representatives of the Torrey Botanical Club, the Botanical Society of Washington, the Philadelphia Botanical Club, and the Botanical Society of Western Pennsylvania.

The region contains many plants of interest to the general botanist as well as the fern student, and since so far as is known no list of the flora was ever published, it may not be out of place to include a few other plants with the ferns.

Although the writer has twice visited this most interesting place and either seen or collected most of the plants

mentioned, he is indebted to Dr. O. E. Jennings, of the Carnegie Museum, for most of the data contained in this list.

Rhododendron maximum is abundant. *Erigeron pulchellus*, in flower in May and June and probably earliest flowering of our asterlike plants, occurs mainly on rocks in the mountains.

Azalea arborescens occurs along the sandy banks of the river around the bend below the falls, this marking practically the northern limit of the species. *Azalea canescens* and *A. nudiflora* both occur in the uplands above the river valley. *Ionactis linariifolia* is found in the crevices of the rocks in the river bed above the falls. *Marshallia grandiflora* occurs along the sandy river bank below the falls, together with *Azalea arborescens*, this being nearly its northern limit. *Pyrularia pubera* occurs in the woods near the Fern Cliff Hotel, this also marking almost its northernmost distribution.

The list of pteridophytes includes thirty-seven species and varieties, most of which are rather abundant. The list follows:

1. *Botrychium virginianum* (L.) Sw.
2. *Botrychium obliquum* Mühl.
3. *Osmunda regalis* L.
4. *Osmunda cinnamomea* L.
5. *Osmunda Claytoniana* L.
6. *Adiantum pedatum* L.
7. *Pteridium aquilinum* (L.) Kuhn
8. *Asplenium pinnatifidum* Nutt.
9. *Asplenium platyneuron* (L.) Oakes
10. *Asplenium trichomanes* L.
11. *Asplenium montanum* Willd.
12. *Athyrium angustifolium* (Michx.) Milde
13. *Athyrium acrostichoides* (Sw.) Diels
14. *Athyrium filix femina* (L.) Roth
15. *Polypodium vulgare* L.

16. *Camptosorus rhizophyllus* (L.) Link
17. *Polystichum acrostichoides* (Michx.) Schott
18. *Polystichum acrostichoides* var. *incisum*
19. *Dryopteris noveboracensis* (L.) A. Gray
20. *Dryopteris thelypteris* (L.) A. Gray
21. *Dryopteris cristata* (L.) A. Gray
22. *Dryopteris Goldiana* (Hook.) A. Gray
23. *Dryopteris marginalis* (L.) A. Gray
24. *Dryopteris intermedia* (Mühl.) A. Gray
25. *Dryopteris phegopteris* (L.) C. Chr.
26. *Dryopteris hexagonoptera* (Michx.) C. Chr.
27. *Cystopteris fragilis* (L.) Bernh.
28. *Cystopteris bulbifera* (L.) Bernh.
29. *Dennstaedtia punctilobula* (Michx.) Moore
30. *Onoclea sensibilis* L.
31. *Equisetum arvense* L.
32. *Equisetum hyemale* L.
33. *Lycopodium lucidulum* Michx.
34. *Lycopodium obscurum* L.
35. *Lycopodium complanatum* L.
36. *Lycopodium tristachyum* Pursh
37. *Selaginella apus* (L.) Spring

The mountain spleenwort occurs rather plentifully on the cliffs below the falls on the right side of the river, while the pinnatifid spleenwort occurs on the same side of the river just a few feet below the falls, and also about one-half mile up and on the right bank, going up, of Meadow Run, a small stream flowing into the river a short distance below the falls.

PITTSBURG, PA.